	Application No.	Applicant(s)	
Nadio - of Allamakilita	10/786,230	HARTLEY, FRANK T.	
Notice of Allowability	Examiner	Art Unit	
	Ted Kim	3746	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate communication is second RIGHTS. This application is second in the communication is second in the communication in the communic	this application. If not included inication will be mailed in due cou	rse. THIS
1. \square This communication is responsive to $\underline{07/03/2006}$.			
2. The allowed claim(s) is/are 1, 2, 9, 10, 12-20, 33, 35-44, 4	<u>19, 50</u> .		
 3. Acknowledgment is made of a claim for foreign priority unally all blue blue blue blue blue blue blue bl	re been received.		
3. Copies of the certified copies of the priority do			from the
International Bureau (PCT Rule 17.2(a)).		V III	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give	MENT of this application. nitted. Note the attached EXA	MINER'S AMENDMENT or NOTI	
		declaration is delicient.	•
5. CORRECTED DRAWINGS (as "replacement sheets") mu			
(a) ☐ including changes required by the Notice of Draftsper	•	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		in the Office setting of	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or	In the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on t the header according to 37 CF	ne drawings in the front (not the bac R 1.121(d).	k) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note DLOGICAL MATERIAL.	the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08),		Mail Date Amendment/Comment	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's	Statement of Reasons for Allowan	ice
of Biological Material			- -
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Carl Kukkonen III on 9/21/2006.

The application has been amended as follows:

SPECIFICATION

- On page 1, lines 6, after "2003," now U.S. Pat. No. 6,828,552, -- has been inserted.
- On page 1, lines 1-2,

"This invention was made in part with Government support under contract NASA-1407 awarded by NASA. The Government has certain rights in this invention." has been deleted.

• On page 1, after line 10, a new paragraph has been inserted:

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--This invention was made in part with Government support under contract NASA-1407 awarded by NASA. The Government has certain rights in this invention.--

Page 3

• On page 10, line 6, "Figure 7 shows an illustration of the way gas" has been replaced by –Gas—. Note that Figure 7 had been canceled by applicant.

Claims

The amendment to the claims of July 03, 2006 fails to list claim 11 in the listing of claims. Elsewhere on page 13, middle paragraph, it is clear that claim 11 was incorporated into claim 1 and the status should be considered as canceled. This was confirmed by the attorney.

- Claim 11 (canceled).
- Claim 12, line 1, "claim 11" has been replaced by claim 1 --.
- Claim 16, line 1, "claim 11" has been replaced by claim 1 --.
- Claim 17, line 1, "claim 11" has been replaced by claim 1 --.
- Claim 18, line 1, "claim 11" has been replaced by claim 1 --.
- Claim 19, line 1, "claim 11" has been replaced by claim 1 --.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: the prior art of record do not fairly teach in permissible combination the claimed invention. Upon

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further consideration, the claims are enabled for the claims presently in the application as all claims drawn to a bipolar thruster have been canceled. The claims are not drawn to a thruster per se, but an apparatus for use in a thruster or a method that produces thrust. There is no teaching of using the particular structure, incorporated into the independent claims on July 03, 2006, to produce thrust and keep the claimed dimension less than the mean free path of the molecules within the gas being ionized. For new claim 50, the "means for generating thrust" has been construed according to 112, 6th paragraph as having support from the specification on page 4, lines 4-page 5, line 15 and page 8, line 19 to page 9, lines 21 and not to the portion with the bipolar thruster. Accordingly the "means for generating thrust" has been deemed to include at least an accelerator grid, and the electrodes of claim 50 as being part of the ionizing membrane.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Ted Kim whose telephone number is 571-272-4829. The Examiner can be reached on regular business hours before 5:00 pm, Monday to Thursday and every other Friday.

The fax number for the organization where this application is assigned is 571-273-8300.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Thorpe, can be reached at 571-272-4444. Alternate inquiries to Technology Center 3700 can be made via 571-272-3700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). General inquiries can also be directed to the Patents Assistance Center whose telephone number is 800-786-9199. Furthermore, a variety of online resources are available at http://www.uspto.gov/main/patents.htm

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